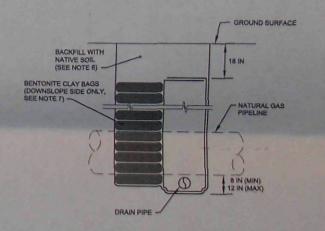
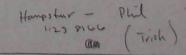


NOTES

- 3) Geotextile for trench drains shall be Amoco ProPex 4552, Carthage Mills FX-60H3, Mirafi 160N, SI Geosolutions Geotex 601, or an equivalent approv by PGE. Any proposed equivalent geotextile shall be a non-woven, needle-punched, polypropylene fathor specifically recommended by the manufacturer for separation, filtration, and drainage purposes. All geotextile joint overlaps along the trench length and the overlap at the top of the rock backfill shall be at least 15 inches. All geotextile ispa along the strench length shall be with the upslope section overlapping the downslope section on the inside.
- 4) Crushed quarry rock or gravel backfill for trench drains shall be 11%-inch minus clean, durable rock material with not more than 2 percent (by weight) passing the No. 200 sieve, based on a wet sieve analysis. All materials passing the No. 200 sieve shall be non-plastic. The rock backfill shall be placed in lifts not exceeding 12 inches (losse measure) depth and compacted with the back of a backhoe bucket, or a similar method approved by PGE.
- 5) The depth of the trench drains will vary from zero depth (daylight) at the outlet ends to approximately ten feet maximum depth at the upper end of the drains for Sites A and B, and the majority of the drain length at Site C. Refer to the elevation tables on each profile section for specific trench invert elevations.
- 6) The top 18 inches of each trench drain shall be backfilled with naïve soil and compacted with three passes of a rubber-tired backhoe, or similar method approved by PQE.
- 7) At the upper end of the trench drains where the drain line intersects the natural gas pipeline (Sites A and B only), bags of bentionts clay shall be placed around the gas pipeline on the downstope side of the trench drain. The bentionts clay is intended to form a seal around the pipe and keep the water collected by the drain from seeping out and flowing along the beckfill surrounding the gas observed in the contraction.
- Provide a Type I Concrete Catch Basin (standard type per Weahington State
 Department of Transportation), or an equivalent approved by PGE. Install at
 outlet end of trench drain at Site B only.



SECTION B-B





CORNFORTH

PLANS, PROFILES, DETAILS, AND NOTES

KB GAS PIPELINE TRENCH DRAINS OSTRANDER, WASHINGTON

